

<220>  
 <221> misc\_feature  
 <222> (1)...(325)  
 <223> n = A,T,C or G

<400> 391  
 tggagcaggt cccgaggcct cccagagacc tggggccgac tctgtgnoga tgcangcttt 60  
 ctctcgcgcc cagcctggag ctgctcctgg catctaccaa caatcagncg aggcgagcag 120  
 tagccagggc actgctgcc aacagccagtc cnnataccat catgtnaccc ggtgngetct 180  
 naantngat ntcenagcc ctaccatcn tagttctgt ctcccacgg ntaccagccc 240  
 cactgcccag gaatctaca gccagtacc tgtcccgacg tctctaccta ccagtacgat 300  
 gagacctccg gctactacta tgacc 325

<210> 392  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(277)  
 <223> n = A,T,C or G

<400> 392  
 atattgttta actccttctt ttatatcttt taacattttc atgngaaag gttcacatct 60  
 agtctcactt nggcnagnn ctctacttg agtctcttcc ccggcctgmn ccagtngnaa 120  
 antaccanga accgncatgn cttsanaacn nccctggttn tgggttante aatgactgca 180  
 tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtggcggy 240  
 ctgaggatac agcgcgcgct cctgtgttgc tggggaa 277

<210> 393  
 <211> 566  
 <212> DNA  
 <213> Homo sapiens

<400> 393  
 actagtccag tgtggtggaa ttccggcgcc cgtccagcga caggtcagat gtctggctca 60  
 gtgatctaca ttctgaagtt gtctgaasat gtcttcatga tttaattcag cctaaacgtt 120  
 ttgcggggaa cactgcagag acaatgctgt gagtttccaa ccttagccca tctgcgggca 180  
 gagaaggctc agtttgtcca tcagcattat catgatatca ggactggtta cttggttaag 240  
 gaggggtcta ggagatctgt cctttttaga gacacottac ttataatgaa gtatttggga 300  
 ggggtggttt caaaagtaga aatgtcctgt attccgatga tcatcctgta aacattttat 360  
 catttattaa tcatcctgc ctgtgtctat tatttatctc atatctctac gctggaaact 420  
 ttctgcctca atgtttactg tgcctttggt tttgctagtt tgtgttggtg aaaaaaasa 480  
 cattctctgc ctgagtttta attttgtcc aaagttattt taatctctac aattaaaagc 540  
 ttttgootat caaaaaaasa aaaaaa 566

<210> 394  
 <211> 384  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(384)  
 <223> n = A,T,C or G

&lt;400&gt; 394

```

gaacatcat  gtcccgccac  ctgagctgca  gtctgacatc  atcgccatca  cgggcctcgc  60
tgcaaatng  gacccggcca  aggcctggact  gctggagcgt  gtgaaggagc  tacaggccna  120
gcaggaggac  cgggctttta  ggagttttta  gctgagtgte  actgtagacc  ccaaatacca  180
tcccaagatt  atcgggagaa  agggggcagt  aattacccaa  atcgggttgg  agcatgacgt  240
gaacatccag  ttctctgata  aggaagatgg  gaaccagccc  caggaccaaa  ttaccattac  300
agggtagcaa  aagaacacag  aagctgccag  ggatgctata  ctgagaattg  tgggtgaact  360
tgagcagatg  gttctctgagg  acgt

```

384

&lt;210&gt; 395

&lt;211&gt; 399

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 395

```

ggcaaaactg  tgtgacctca  ataagacctc  gcagatccaa  ggtcaagtat  cagaagtgac  60
tctgaccttg  gactccaaga  cctacatcaa  cagcctggct  atattagatg  atgagccagt  120
taccagaggt  ttcacatttg  cggaaattgt  ggagtotaag  gaaatcatgg  cctctgaagt  180
attcacgtct  ttccagtaac  ctgagttctc  tatagagttg  cctaacacag  gcagaattgg  240
ccagctactt  gtctgcaatt  gtatcttcaa  gaataccctg  gccatccctt  tgactgaagt  300
caagttctct  ttggaaaagc  tgggcattct  ctcaactacg  acctctgacc  atgggaaggt  360
gcagcctggt  gagaccatcc  aatcccaaat  aaaaatgcac

```

399

&lt;210&gt; 396

&lt;211&gt; 403

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(403)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 396

```

tggagttatc  agtgcaasca  agccataaag  ctccagtagc  aaattactgt  ctccacagaaa  60
gacaktttca  acttctgctc  cagctgctga  taaaacaaat  catgtgttta  gcttgactcc  120
agacaaggac  aacctgttcc  ttcataactc  tctagagaaa  aaaaggagtt  gttagtagat  180
actaaaaaaaa  gtggatgaat  aatctggata  tttttcctaa  aaagattcct  tgaacacat  240
taggaaaatg  gagggcotta  tgatcagaat  gctagaatta  gtccattgtg  ctgaagcagg  300
gtttagggga  gggagtgagg  gatasaagaa  ggaaaaaaag  aagagtgaga  aaacctatct  360
atcaaaagcag  gtgctatcac  tcaatgttag  gccctgctct  ttt

```

403

&lt;210&gt; 397

&lt;211&gt; 100

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(100)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 397

```

actagtnacg  tgtgggtggaa  ttccggggcc  cgtcgacctc  naanccatct  ctatagcaaa  60
tccatccccg  ctcttggttg  gtnacagaat  gactgacaaa

```

100

&lt;210&gt; 398

&lt;211&gt; 278

<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(278)  
 <223> n = A,T,C or G

<400> 398  
 ggggagcgt cgacagcagt tccgccagcg ctggccctg ggtggggatg tgcgcacgc 60  
 ccactggac atctggaagt caggggctg gatgaagag cggacttcac ctggggcgat 120  
 tcaactactgt gctcgagaca gtgaggagag ctggaccgac agcgaggtag actcatcatg 180  
 ctccgggcag cccatccacc tgtggcagtt cctcaaggag ttgctactca agccccacag 240  
 ctatggcgcg ttcattangt ggctcaacaa ggagaagg 278

<210> 399  
 <211> 298  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(298)  
 <223> n = A,T,C or G

<400> 399  
 aaggaggtag aggaagcgac cctgggagcg anaggatggg tccctgncatt gacccctccn 60  
 ggggtgceng catggagcgc atgggcgcgg gcctgggcca cggcatggat cgcgtgggct 120  
 ccgagatcga ggcgatgggc ctggctcatg accgcatggg ctccgtggag cgcgtgggct 180  
 ccggcattga ggcgatgggc ccgtgggccc tcgaccacat ggctccanc attganogca 240  
 tgggcccagc catggagcgc attggctctg gctggagcn catgggtgcc ggcattgg 298

<210> 400  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

<400> 400  
 acatcaacta cttectcatt ttaaggtagt gcagttccct tcatcccttt ttctgcatt 60  
 gtacatgtac atgtatgaaa ttctcttctc ttaccgaact ctctccacac atcacaagg 120  
 caaagaacca cagccttaga agggtaagag ggcacccat gaaatgaat ggtgattct 180  
 tgagtctctt ttttccacgt ttaaggggccc atggcaggac ttagagttgc gaggtaagac 240  
 tgcagagggc tagagaatta ttccatacag gctttgaggg cccccatgtc acttatccc 300  
 tataccctct caccatcccc ttgtctactc tgatgcccc aagatgcac tgggcagcta 360  
 gttggcccca taattctggg cctttgttgt ttgttttaat tacttggga tcccaggaag 420  
 ctttccagtg atctcctaac atgggcccc ctctggggat caagccctc ccaggccctg 480  
 tccsagccc ctctgcccc agcccacccg cttgccttgg tgcacagcc tccattggg 540  
 agcaggtt 548

<210> 401  
 <211> 355  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(355)  
 <223> n = A,T,C or G

```

<400> 401
actgttttcca tgttatgttt ctscacattg ctacctcagt gctcctggaa acttagcttt 60
tgatgtctcc aagtagtcca ccttcattta actctttgaa actgtatcat ctttgccaag 120
taagsgtggg ggccctattc agctgctttg acaaaatgac tggctcctga cttaacgttc 180
tatasaatgaa tgtgctgaag caaagtgcgc atggtggcgg cgaagaagan aaagatgtgt 240
tttgttttgg actctctgtg gtcccttcca atgotgnggg tttccaacca ggggaagggt 300
cccttttgca ttgccaagtg ccataacctat gagcaactact ctacctggg tctgc 355

```

```

<210> 402
<211> 407
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(407)
<223> n = A,T,C or G

```

```

<400> 402
atgggggcaag ctggataaag aaccaagacc cactggagta tctgtcttc aagaaaccca 60
tctcacatgc ggtggcctac ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120
aaatggaaaa cagaaaaaag caggtgttgc actcctactt tctgacaaaa cagactatgc 180
gaataaagat aaaaaagaga aggacattac aaaggtggtc ctgacctttg ataaatctca 240
ttgcttgata ccaactggg ctgttttaat tgcctaaacc aaaaggataa tttgctgagg 300
ttgtggagct tctccctgc agagagtccc tgatctccca aaatttggtt gagatgtaag 360
gntgattttg ctgacaactc cttttctgaa gttttactca ttccaa 407

```

```

<210> 403
<211> 303
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(303)
<223> n = A,T,C or G

```

```

<400> 403
cagtatttat agccnaactg aaaagctagt agcaggcaag tctcaaatoe aggcacccaa 60
tcttaagcaa gagccatggc atgggtgaaaa tgcaaaagga gagtctgggc aatctacaaa 120
tagagaacaa gacctactca gtcatgaaca aaaaggcaga caccaacatg gatctcatgg 180
gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacaaca 240
tcttaacaaac gacogaaacc cattattttac ataaacctcc attcggtaac catgttgaaa 300
gg* 303

```

```

<210> 404
<211> 225
<212> DNA
<213> Homo sapiens

```

```

<400> 404
aagtgttaact tttaaaaatt tagtggattt tgaaaattct tagaggaaag taaaggaaaa 60
attgttaatg cactcattta cttttacatg gtgaaagttc tctcttgatc ctacaaacag 120
acattttcca ctcggtgttc catagttgtt aagtgtatca gatgtgttgg goatgtgaat 180
ctccaagtgc ctgtgttaata aataaagtat ctttatttca ttcac 225

```

```

<210> 405

```

<211> 334  
 <212> DNA  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(334)  
 <223> n = A,T,C or G

<400> 405  
 gagctgttat actgtgagtt ctactaggaa atcatcaaat ctgagggttg tctggaggac 60  
 ttcaatacac ctccccccat agtgaatcag attccagggg gtccagtccc tctccttact 120  
 tcatcccatat cccatgccaa aggaagaccc tccctccttg gctcacagcc ttctctaggc 180  
 ttcccagtgct ctccaggaca gagtgggtta tgttttcagg tccatccttg ctgtgagtg 240  
 ctggtgaggt tgtgectcaa gcttctgctc agtgcttcat ggacagtgtc cagcccatgt 300  
 cactctccac tctctcannn tggatccac cact 334

<210> 406  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(216)  
 <223> n = A,T,C or G

<400> 406  
 ttctatacct aatgaggag ttganatnac atnnaaccag gaaatgcabg gatctcaang 60  
 gaaacaaaca cccaataaac tcggagtggc agactgacaa ctgtgagaca tgcacttgct 120  
 acnaaacaca aatttnatgt tgcacccttg tttctacacc tgtgggttat gacaagaca 180  
 actgccaasg aatnttcasg aaggaggact gccast 216

<210> 407  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<400> 407  
 gctgacttgc tagtatcatc tgcattcatt gaagcacasg aacttcatgc ctgactcat 60  
 gtaaattgcaa taggattaaa aataaattt gatctacat ggaacagac aaaaaattt 120  
 gtacaacatt gcaccagtg tcagattcta cacttgcca cttaggaagc aagagttat 180  
 cccagaggtc tatgtctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240  
 ggaaaattgt catttgtoca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300  
 tgccagacag gagaagtct tcccatgta aaagacattt attatcttgt ttctctgtca 360  
 tgggagttcc agaaaaagt aaacagaca atgggacagg ttctgtagta aag 413

<210> 408  
 <211> 183  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(183)  
 <223> n = A,T,C or G

<400> 408

```

ggagctngcc ctcaattcct ccatnctctat gttancatct ttaatgtctt ttgnnattaa 60
tnccttaacta gtttaactcct aaagggctan ntaatectta actagtccct ccattgtgag 120
cattatcctt ccagiatctn ccttctnttt tatttactcc tctctggcta cccatgtact 180
ntt 183

```

```

<210> 409
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 409
cccacgcctg ataagctctt tatttctgta agtctgcta ggaatcctc aaatctgacy 60
gtgggtttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180
gcttccagct gccccagga cagcgtgggc tatgtttaca ggcctcctt gctggggggg 240
ggccttatgc 250

```

```

<210> 410
<211> 306
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(306)
<223> n = A,T,C or G

```

```

<400> 410
ggetggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaatggaa 60
agtcttgcaa tccatttgc aggtccgtc tgtgcacatg cctctgtaga gacagcatt 120
cccagggaac ttggaacag ttggcaactgt aaggtgcttg ctccccaga cacatctaa 180
aaggtgttgt aatggtgaaa accgcttctt tctttattgc cccttcttat ttatgtgaa 240
nactggttgg ctttttttgn atctttttta aactggaaag ttcaattgng aaatgaata 300
tentge 306

```

```

<210> 411
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

```

```

<400> 411
agagatattn cttaggtnaa agttcataga gtteccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggtgttc 120
tttaaatgtc tgaatggaa cagatttcaa aaaaaaacc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggtgatggg caaaaaacca atttaacct cagttccagc 240
cttctctcaa gmgaggcaa a 261

```

```

<210> 412

```

<211> 241  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(241)  
 <223> n = A,T,C or G

<400> 412  
 gttcaatgtt acctgaacatt totacaacac cccactcacc gatgtattcg ttgccacgtg 60  
 ggaacatacc agcctgaatt tggaaaaaat aattgtgttt ctigcccagg aaatactacg 120  
 actgaactttg atgggtccac aaacataaac cagtgtaaaa acagaagatg tggaggggag 180  
 ctgggagatt tcaactgggtg cattgaattc ccaaaactacc cangcaatta ccagaccaac 240  
 a 241

<210> 413  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(231)  
 <223> n = A,T,C or G

<400> 413  
 aactottaca atccaagtga ctcatctgtg tgcttgaato otttcacgtg tctcatctcc 60  
 ctcactcaag ttctctagtae ettctctttg ttgtgaagga taatcaaat gaacaacaaa 120  
 aagtttacte tcttcatttg gaacctaaaa actctctttt tcttgggtct gagggtctca 180  
 agaactcttg aatcanttct cagatcattg gggacaccan atcaggaacc t 231

<210> 414  
 <211> 234  
 <212> DNA  
 <213> Homo sapiens

<400> 414  
 actgtccatg aagcaactgag cagaagctgg aggcacaacg caccagacac tcacagcaag 60  
 gatggagctg aaaacataac ccactctgtc ctggaggcac tgggaagcct agagaaggct 120  
 gtgagccaaag gaggagggtt ettccttttg catgggatgg ggaatgaagta aggagagggg 180  
 ctggaccccc tggaaagctga ttcaactatgg ggggaggtgt attgaagtcc tcca 234

<210> 415  
 <211> 217  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(217)  
 <223> n = A,T,C or G

<400> 415  
 gcataaggatt aagactgagt atctttttcta cattctttta actttctaaag gggcactttct 60  
 caaaacacag accaggtagc aaatctccac tgctctaaag ntctcaccac cactttctca 120  
 caactagcaa tagtagaatt cagtcctact tctgaggcca gaagaatggt tcagaaaaat 180  
 antggattat aaaaaataac aattaagaaa aataatc 217

<210> 416  
 <211> 213  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(213)  
 <223> n = A,T,C or G

<400> 416  
 atgcataatnt aaagganact gcctcgcttt tagaagacat ctggncctgt ctctgcatga 60  
 ggcacagcag taaagctctt tgattcccag aatcaagaac tctccccttc agactattac 120  
 cgaatgcaag gtggttaatt gaaggccact aattgatgt ccaatagaag gatattgact 180  
 atattggaac agatggagtc tctactacaa aag 213

<210> 417  
 <211> 303  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(303)  
 <223> n = A,T,C or G

<400> 417  
 nagctcttcag gcccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60  
 gtgggaagg ctttactctg agttcaaatc ttcaagccca tcagagagtc cacactggag 120  
 agaagccata caaatgcaat gagggtggga agagcttcag gagggattcc cattatcaag 180  
 ttcatctagt ggtccacaca ggagagaaac cctataaatg tgagatatgt ggggaagggt 240  
 tcantcaag ttggtatctt caatccatc ngaaggncac cagtatanan aaacctttta 300  
 agt 303

<210> 418  
 <211> 328  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(328)  
 <223> n = A,T,C or G

<400> 418  
 tttttggggg tgggtgggca gggacgggac angagtctca ctctgttgcc caggctggag 60  
 tgcacaggca tgatctcgcc tcaactacaac cctgcccctc catgtccaag cgattcttgt 120  
 gcctcagcct tccctgtage tagaattaca ggcacatgcc accacaccca gctagttttt 180  
 gtatttttag tagagacagg gtttcaccat gttggccagg ctggtctcaa actectnacc 240  
 tcagnggtca ggctggtctc aaactcctga cctcaagtga tctgcccacc tcagcctccc 300  
 aaagtgtan gattacaggc cgtgagcc 328

<210> 419  
 <211> 389  
 <212> DNA  
 <213> Homo sapiens



<220>  
 <221> misc\_feature  
 <222> (1)...(309)  
 <223> n = A,T,C or G

<400> 419

```

cctctcaag acggcctgtg gtcgcctcc cggcaaccaa gaagcctgca gtgccatag 60
acctctgagc catggactgg agcctgaaag gcagcgtaca cctgctcct gatcttctg 120
cttgtttcct ctctgtggt ccattctatg cacagtgtt gcactgagge ttgtgcagge 180
cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggt gtgccaggca 240
cgggttctcc agccaccaac ctactcctgt cccgcaaatg gcacatcagt tcttctaccc 300
taaaggtagg accaaagggc atctgtttt ctgaagtct ctgctctatc agccatcacg 360
tggcagccac tggcgtgtg toagcggg

```

<210> 420  
 <211> 408  
 <212> DNA  
 <213> Homo sapiens

<400> 420

```

gttctccta actcctgcc aaacagctc tctcaacat gagagctgca cccctcctcc 60
tggcagggc agcaagcctt agccttggct tcttcttct gcttttttct tggctagacc 120
gaagtgtact agccaaggag ttgaagtgt tgactttgt gtttcggcat ggagaccgaa 180
gtccattga cacttttccc actgacccc taaaggaaac ctcatggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat ggtcctata aacatgaaca gtttatatt cgaagcacag 360
acgttgaccg gactttgatg aagtgtatg acaaacctgg caagcccg

```

<210> 421  
 <211> 352  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(352)  
 <223> n = A,T,C or G

<400> 421

```

gtcaaaaat ctttttactg atnggcctgg ctacacaatc attgactatt acggaggcca 60
gaggagaatg aggcctggcc tgggagcct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gaacaggtct tttttgggtc cttcttctcc accacnatac acttgcagtc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacaggtg tagaaacaag 240
ggtgcaacat gaaatttctg tttcgtagca agtgcatgtc tcacaagttg gcangtcgc 300
cactccaggt ttattgggtg tttgttctc ttgagatcca tgcatttctt gg

```

<210> 422  
 <211> 337  
 <212> DNA  
 <213> Homo sapiens

<400> 422

```

atgccaccat gctggcnaatg cagcgggctg tcgaaggcct gcataatccag cccaagctgg 60
cgatgatoga cggcaacccgt tggcgaagt tgcgatgccc agccgaagcg gtggtaagg 120
ggcatagcaa ggtgcggcg atcgcggcg cgtcaatcct ggccaaggtc agccgtgac 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcggcggg cataagggt 240
atccgacacc ggtgcacctg gaagccttgc agcgggtggg gccgacgccc attcacggac 300
gcttcttccg ccggtacggc tggcctatga aaattat

```

<210> 423  
 <211> 310  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(310)  
 <223> n = A,T,C or G

<400> 423  
 gctcaaaaat ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60  
 aggagaaatga ggcttgccct gggagccctg tgctactan aagencatta gattatccat 120  
 tcaatgacag aacaggtctt ttttgggtcc ttctctccca ccagatata ctgcagtc 180  
 tcttcttga agattctttg gcagttgtct ttgtcataac ccacaggtgt anaaacaagg 240  
 gtgcacatg aaatttctgt ttogtagcag gtgcagtgt cccagttgtc aagtctgccc 300  
 tccgagttta 310

<210> 424  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(370)  
 <223> n = A,T,C or G

<400> 424  
 gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60  
 ggagaatgag gcctggccct gggagccctg gctactaga agcacattag attatccatt 120  
 cactgacaga acaggtcttt ttgggtctct ttctctccac cccgatatcc ttgcagtc 180  
 ccttcttga gattcttttg cagttgtctt tgtcataacc ccacaggtgt gaaacatcct 240  
 ggttgaatct cctggaaatc cctcattagg tatgaaatag catgatgcac tgcataaagt 300  
 caccgaaggtg gcaaaagatc caacgctgcc cagganaaca ttcatgtga taagcaggac 360  
 tccgtgacg 370

<210> 425  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(216)  
 <223> n = A,T,C or G

<400> 425  
 aattgctain ntttattttg ccactcaaaa taattaccaa aaaaaaaaaa tnttaaatga 60  
 taacaaccca acatcaaggn aaananaaca ggaatggntg acnttgcata aatnggccga 120  
 anattatcca ttatnttaag ggttgacttc aggtacagc acacagacaa acatgccccg 180  
 gaggnnttca ggaacgctcg atgtntntng agggagg 216

<210> 426  
 <211> 596  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 426

```

cttccagtgga ggataaccct gttgccccgg gccgaggttc tccattagge tctgattgat 60
tggcagtcag tgatggaagg gtgttctgat cttccgact gccccaaggg togtggcca 120
gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatgggga 180
gctgtccctg tattttgatt aacctaatgg ccttcccage acgactcgga ttcagctgga 240
gacatcaagg caacttttaa tgaatgatt tgaaggggca ttaagaggca cttcccgta 300
ttaggcagtt catctgcact gataacttct tggcagctga gctggtcgga gctgtggccc 360
aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420
ggtggatggc cttttcagct ttaacccaat ttgcaactgcc ttggaagtgt agccaggaga 480
atacactcat atactcgtgg gotttagaggc cacagcagat gtcattggtc tactgctga 540
gtcccgctgg tcccatccca ggaccttcca tcggcgagta cctgggagcc cgtgct 596

```

&lt;210&gt; 427

&lt;211&gt; 107

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)...(107)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 427

```

gaagaattca agttaggttt attcaagggt cttacngaga atcttanacc caggnccag 60
cccggaagca gcttanaga gctcctgitt gactgcccgg ctcagng 107

```

&lt;210&gt; 428

&lt;211&gt; 38

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)...(38)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 428

```

gaacttcna anaangactt tattcactat ttacatt 38

```

&lt;210&gt; 429

&lt;211&gt; 544

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 429

```

ctttgctggc cggataaaaa gtggagcga gccatgacote ctgatgaggg cgtgcattt 60
attgaagagc ggctgcagcc ctgcggttca gattaaaato cgagaattgt atagaagccg 120
atatccaga actcttgaag gactttctga ttatccaca atcaaatcat cggttttcag 180
tttgatgggt ggctcatcac ctgtagaacc tgacttggcc gtggctggaa tccactcgtt 240
gctttccact tcagttacac ctcaactcac atcctctcct gttggttctg tgcctgttca 300
agatactaag ccacacattt agatgcagca gccatctccc ccatttctc ctgtccatcc 360
tgatgtgcag ttaaaaaaatc tgcccttta tgatgtcctt gatgttctca tcaagccccc 420
gagtttagtt caaagcagta ttcagcgatt tcaagagaag ttttttattt ttgctttgac 480
acctcaacaa gtttagagaga tatgcataac cagggatttt ttgccaggtg gtaggagaga 540
ttat 544

```

&lt;210&gt; 430

<211> 507  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(507)  
 <223> n = A,T,C or G

<400> 430  
 cttatcncaa tggggtccc aaacttggct gtgcagtga aactccggg gaattttgaa 60  
 gaacactgac acccatcttc caccocgaca ctctgattta attgggctgc agtgagaaca 120  
 gagcatcaat ttasaaaagct gccaggaatg ttntcctggg cagcgttgtg atctttgccc 180  
 ccttcgtgac ttatgcaat gcacatgct atttcatacc taatgagggg gtccaggag 240  
 attcaaccag gatgtttct cncctgtggg ttatgacaaa gacaactgcc aaagaatntt 300  
 caagaaggag gactgcaagt atatcgttgt ggagaagaag gacccaaaaa agacctgttc 360  
 tctcagtga tggataatct aatgtgcttc tagtaggcac agggctccca ggccaggcct 420  
 cattctctc tggcctctaa tagtcactga ttgtgtagcc atgacctatc gtaaaaagat 480  
 ttttgagcaa aaaaaaaaa aaaaaaa 507

<210> 431  
 <211> 392  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(392)  
 <223> n = A,T,C or G

<400> 431  
 gaaaattcag aatggatasa aacaaatgaa gtacaaaata ttccagattt acatagcgat 60  
 aaacaagaaa gcacttatca ggaggactta caaatggaag tacactctan aaccatcctc 120  
 tatcctggct aaatgtgaga ttgacacagc tgtattattt gtacattgca aacacctaga 180  
 aagagatggg aaacaaaatc ccaggagttt tgtgtgtgga gtccctgggt ttccaacaga 240  
 catcattcca gcattctgag attagggnga ttggggatca ttctggagtt ggaatgttca 300  
 acaaaaagtga tgttgttagg taasatgtac aaactctgga tctatgcaga cattgaaggt 360  
 gcaatgagtc tggcttttac tctgctgttt ct 392

<210> 432  
 <211> 387  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(387)  
 <223> n = A,T,C or G

<400> 432  
 ggtatccnta cataatcaaa tatagctgta gtacatgttt tcattggngt agattaccac 60  
 aaatgcaagg caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg 120  
 ngtagtccaa gctctcgga gtccagccac tngaaacat gctccctta gattaacctc 180  
 gtggaenctn ttgttgnatt gtctgaactg tagngccctg tattttgctt ctgtctgnga 240  
 attctgttgc ttctggggca ttctcttng atgcagagga ccccccacac gatgacagca 300  
 atctgeattg ntcaatcac agctgcgatt aagacatact gaaatcgtac aggcacggga 360  
 acaacgtata gaacactgga gtccctt 387

<210> 433  
 <211> 281  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(281)  
 <223> n = A,T,C or G

<400> 433  
 ttcaactagc anagaanact gcttcagggg gtgtaaaatg aaaggcttcc acccagttat 60  
 ctgattaaag aacactaaga gagggacaag gctagaagcc gcaggatgtc tacactatag 120  
 caggcnctat ttgggttggc tggaggagct gtggaaaaaca tggagagatt ggcgctggag 180  
 atgcgcgtgg ctatttctctn ttgntattac accagngagg ntctctgnt gcccactggt 240  
 tnnaaaaccg ntatacaata atgatagaat aggcacacaca t 281

<210> 434  
 <211> 484  
 <212> DNA  
 <213> Homo sapiens

<400> 434  
 ttttaaaata agcatttagt gctcagtcce tactgagtae tctttctctc ccttctctctg 60  
 aatttaattc tttcaacttg caatttgcaa ggattacaca tttcaactgtg atgtatattg 120  
 tgttgcaaaa aaaaaaaagt gtctttgttt aaatttactt ggtttgtgaa tccatcttgc 180  
 tttttcccca ttggaaactag tcattaaacc atctctgaac tggtagaaaa acatctgaag 240  
 agctagtcta tcagcatctg acaggtgaat tggatggttc tcagaaccat ttaccccaga 300  
 cagcctgitt ctatctctgt taataaatta gtttgggttc tctacatgca taacaaacc 360  
 tgcctcaate tgtcacataa aagtctgtga cttgaagttt agtcagcacc cccaccasac 420  
 tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataaag taccatgtc 480  
 tttt 484

<210> 435  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<400> 435  
 ggcgcgctca gaggaggtca ctttctgctt tccaggtcct ccttcaagga agccccatgt 60  
 ggttagcttt caatatgca ggttcttact cctctgctc tataagctca aaccaccaa 120  
 cgatcgggca agtaaacccc ctccctcgcc gacttcggaa ctggcgagag ttccagcgag 180  
 atgggctgtt ggggaggggg caagatagat gagggggagc ggcattggtc ggggtgaccc 240  
 ctggagaga ggaaaaaggc cacaagaggg gctgccaccg ccactaacgg agatggccct 300  
 ggtagagacc ttgggggggc tggaaacctt ggaactcccc tgccttaact cccacactct 360  
 gctatcagaa acttaaaact gaggattttc tctgtttttc actcgcaata aattcagagc 420  
 aaac 424

<210> 436  
 <211> 667  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(667)  
 <223> n = A,T,C or G

&lt;400&gt; 436

```

accttgggaa nactotcaca atataaaggg tegtagnctt tactccaaat tccaaaaagg 60
tcttggccat gtaattctga aagttttccc aaggttagcta taaaatcctt ataagggtgc 120
agctctttct ggaattctct tgaattcaaa gtctcactct caagttcttg aaaacggagg 180
cagttctctga aaggcaggta tagcaactga tottcagaaa gaggaaactgt gtgcaccggg 240
atgggctgcc agagtaggat aggattccag atgctgacac cttctggggg aaacagggct 300
gccaggtttg tcatagcact catcaaaagt cggtcnaact ctgtgcttcg aatataaacc 360
tggtcatgtt tataggactc attcaagaat tttctatata tctttcttat atactctcca 420
agttcataat gctgctccat gccagctgg gtgagttggc caaatccttg tggccatgag 480
gattccttta tggggtcagt gggaaagggt tcaatgggac ttcggtctcc atgccgaacc 540
accaaagtc aaaaactcaa ctcttgggt agtaacctc ggtctagcca gaaaaaaagg 600
agaaacaaga agccaaggct aaggcttgc gccctgccag gaggaggggt gcagctctca 660
tggtgag 667

```

&lt;210&gt; 437

&lt;211&gt; 693

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 437

```

ctacgtctca accctcattt ttaggtaagg aactcttaagt ccaaaagatat taagtgactc 60
acacagccag gtaaggaaag ctggattggc aactaggagc tctaccatac cgggttttgt 120
taaagctcag gttaggaggc tgataagctt ggaaggaaact tcagacagct ttctcagatc 180
ataaaagata attcttagcc catgttcttc tccagagcag acctgaaatg acagcacagc 240
aggtactcct ctattttcac cctctttgct tctactctct gccagtcaga cctgtgggag 300
gccatgggag aaagcagctc totggatgtt tgtacagatc aiggactatt ctctgtggac 360
catttctcca ggttacccca ggtgtcacta ttgggggggac agccagcata tttagctttc 420
atttgagttt ctgtctgtct tcagtagagg aaacttttgc tottcacact tcacatctga 480
acaactaact gctgttgcct ctgaggtggt gaaagacaga tatagagctt acagtattta 540
tctattttct aggcactgag ggtctgtggg taccttgttg tgcasaaca gatcctgttt 600
taaggacatg ttgcttcaga gatgtctgta actatctggg ggtctgtttg gctctttacc 660
ctgcactcat tgctctcttg gctgaaaatg acc 693

```

&lt;210&gt; 438

&lt;211&gt; 360

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 438

```

ctgcttatca caatgaatgt tctcctgggc agcgttgtga tctttgccac cttcgtgact 60
ttatgcaatg catcatgcta ttctatacct aatgagggag ttccaggaga ttcaaccagg 120
atgtttctac acctgtgggt tatgacaaag acaactgcca aagaatcttc aagaaggagg 180
actgcaagta tatctggttg agaagaagga cccaaaaaag acctgttctg tcagtgaatg 240
gataatctaa tgtgcttcta gtaggcacag ggtccacagg ccaggcctca ttctctctg 300
gcctetaata gtcaataatt gtgtagccat gcctatcagt aaaaagattt ttgagcaaac 360

```

&lt;210&gt; 439

&lt;211&gt; 431

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)...(431)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 439

```

gttctctnata actcctgcca gaaacagctc tctcaacat gagagctgca cccctcctcc 60

```

150

```

tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgg gtttcggcat ggagaccgaa 180
gtcccattga caactttccc actgacccca taaagggaatc ctcatggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagaqtat ataagaaaga 300
gatataaaaa attcttgaat gagtctctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgcctatga caaacctggc agcccgctga cgcggccgcg 420
aatttagtag t 431

```

&lt;210&gt; 440

&lt;211&gt; 523

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 440

```

agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaatgtc tgaatggaa cagatttcaa aaaaaaoccc caaatctag ggtgggaaca 180
eggaaggaaa gatgtgaata ggtgatggg caaaaaoccc atttaccat cagttccagc 240
cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300
actggaaaac tgcctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360
taaaaattaa aacctctttg tgtcctttgg tccctggaaa tttatgttcc ttttaaaaga 420
acaaaaatca aactttacag aaagatttga tgtatgtaac acatatagca gctcttgaag 480
tatatatatc atagcaata agtcatctga tgagaacaag cta 523

```

&lt;210&gt; 441

&lt;211&gt; 430

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 441

```

gttctctcta actcctgcca gaacacagctc tctccaaatc gagagctgca cccctctctc 60
tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgg gtttcggcat ggagaccgaa 180
gtcccattga caactttccc actgacccca taaagggaatc ctcatggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagaqtat ataagaaaga 300
gatataaaaa attcttgaat gagtctctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgcctatga caaacctggc agcccgctga cgcggccgcg 420
aatttagtag 430

```

&lt;210&gt; 442

&lt;211&gt; 362

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 442

```

ctaaggaatt agtagtgctt ccatacaattg tttggagtgt gctattctaa aagattttga 60
tttcttggaa tgacaattat attttaactt tgggtgggga aagagttata ggaccacagt 120
cttcaattct gatacttgta aattaactct ttattgcact tgttttgacc attaagctat 180
atgtttagaa atggtcattt tacggaaaaa ttagaasaaat tctgataata gtgcagaata 240
aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaattctttt 300
tgattatttt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360
tc 362

```

&lt;210&gt; 443

&lt;211&gt; 624

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(624)  
 <223> n = A,T,C or G

<400> 443  
 tttttttttt gcaacacaaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60  
 ttgaagaat taatttcaga ggaggggaga gaaagagtac teagtaggga ctgagcacta 120  
 aatgcttatt ttaasagaaa tgtaaagagc agaaagcaat tcaggctaac ctgccttttg 180  
 tgctggctag tactcpggtc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240  
 cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaaacttg cttectgttt 300  
 tataaaatat tgtgaataat atcaactact tcaaggggca gttatgagga ttaaatgaac 360  
 taacgcctac aaacacctta aacatagata acataggtgc aagtactatg tatctggtac 420  
 atggttaaca tccttattat taaagtcaac gctaaaatga atgtgtgtgc atatgcta 480  
 agtacagaga gagggcactt aaaccaacta agggcctgga gggaagggtt cctggaaaga 540  
 ngatgcttgt gctgggtcca aatcttgggt tactatgacc ttggccaaat tatttaact 600  
 ttgtccctat ctgctaaaca gac 624

<210> 444  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(425)  
 <223> n = A,T,C or G

<400> 444  
 gcacatcatt nntcttgcct tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60  
 gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120  
 ttcattgcta tagcataaca caaaatttgc ataagtggtg gtcagcaaat ccttgaatgc 180  
 tgcttaattgt gagaggttgg taaaatcctt tgtgcaacac tctaactccc tgaatgtttt 240  
 gctgtgctgg gaactgtgca tgcagacaa ggccaaagctg gctgaaagag caaccagcca 300  
 cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcacctgtg gaagagccaa 360  
 ggagggcacc ggccataagt gactagactt atggtcgacg oggcgcgcaa tttagtagta 420  
 gtaga 425

<210> 445  
 <211> 414  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(414)  
 <223> n = A,T,C or G

<400> 445  
 catgtttatg ntthtggatt actttgggca cctagtgttt cttaactcgt tatcattcct 60  
 ttctgttttt caaagccaga gatggccaga gtctcaacaa actgtatctt caagtctttg 120  
 tgaattctt tgcattgtgg agattatttg atgtagtctt cttaactag catataaact 180  
 tgggtgtgtt cagataaatg aacagcaaaa tgtggtggaa ttaccatttg gaacattgtg 240  
 aatgaaaaat tgtgtctcta gattatgtaa caataacta ttcttaaco attgatcttt 300  
 ggatttttat aatcctactc acaaatgaat aggtctctcc tcttgtattt tgaagpagtg 360  
 tgggtgctgg attgataaaa aaaaaaaaag tcgacggggc cgcgaattta gtg 414

<210> 446



<211> 631  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(631)  
 <223> n = A,T,C or G

<400> 446  
 acaaattaga anaaagtgcg agagaacacc acataccttg tccggaaact tacaatggct 60  
 tctgcatgca tgggaagtgt gagcattcta tcaatatgca ggagccatct tgcagggtgtg 120  
 atgtgtggtta tactggacaa cactgtgaaa aaaaggacta cagtgttcta tacgttggtc 180  
 cgggtccctgt acgatttcag tatgtcttaa tgcagctgtg gatttgaaca attcagattg 240  
 ctgtcatctg tgtggtggtc ctctgcctca caaggggccaa actttaaggta atagcattgg 300  
 actgagattt gtaaaccttc caaccttcca ggaatgccc cagaagcaac agaattcaca 360  
 gacagaagca aaatacaggg cactacagtt cagacaatac aacaagagcg tccacgaggt 420  
 taattcaaaq ggagcatgtt tcacagtggc tggactaccg agagcttggc ctacacaata 480  
 cagtattata gacaaaagaa taagacaaga gatctacaca tgttgcttg catttgtggt 540  
 aatctacacc aatgaaaaca tgtactacag ctatatattga ttatgtatgg atatatattga 600  
 aatagtatac attgtcttga tgtttttct g 631

<210> 447  
 <211> 585  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(585)  
 <223> n = A,T,C or G

<400> 447  
 ccttgggaaa antntcaca tataaagggt cgtagacttt actccaaatt ccaaaaaggc 60  
 cctggccatg taatcctgaa agttttccca aggtagctat aaaatcctta taaggggtgca 120  
 gctctctctg gaattcctct gatttcaag tctcactctc aagttcttga aaacgagggc 180  
 agttcctgaa aggcaggtat agcaactgat ctccagaaag aggaactgtg tgcacgggga 240  
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 gtccatgttt ataggactca ttcaagatt ttctatatct ctttcttata tactctocaa 420  
 gtccataatg ctgctccatg cccagctggg tgagttggcc aaatccttgt ggccatgagg 480  
 attcctttat ggggtcagtg ggaagggtgt caatgggaet tgggtctcca tgcggaaca 540  
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<210> 448  
 <211> 93  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(93)  
 <223> n = A,T,C or G

<400> 448  
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 ggctccctag tgccctggag aggaaggggc tag 93

<210> 449  
 <211> 706  
 <212> DNA  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(706)  
 <223> n = A,T,C or G

<400> 449  
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 ttctgancac cgaactgacc atgccagccc tggcgatggc cctccatggc tccctagtgc 120  
 cctggagagg aggtgtctag tcagagagta gtccctggaag gtggcctctg ngaggagcca 180  
 cggggacagc atcctgcaga tggtcggggc cgtcccatc gccattcagg ctgcgcaact 240  
 gttgggaagy gcgatcggtg cgggctctt cgtctattac ccagctggcg aaagggggat 300  
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 cgaaggccag tgaattgaat ttaggtgacn ctatagaaga gctatgaagt cgcattgcacg 420  
 cgtacgtaag cttggatcct cttagagcggc cgcctactac tactaaattc ggggcgcgct 480  
 cgaagtggga tccncaactg gagagtggag agtgacatgt gctggacnct gtccatgaag 540  
 cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggggctgag 600  
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 gcatggatga cagagtgaac ctccatctta aaaaaaaaaa aaaaaa 706

<210> 450  
 <211> 493  
 <212> DNA  
 <213> Homo sapiens

<400> 450  
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 aattaggctt gagaacttta caaagggatc ttacagacat gtggccaata tcactgcatg 180  
 agcctaagta taagaacaac ctttggggag aaacctcat ttgacagtga ggtacaattc 240  
 caagtcaagt agtgaatgg gtggaattaa actcaaatc atcctgccag ctgaaaagca 300  
 agagacactg tcagagagtt aaaaagttag ttctatccat gaggtgattc cacagtcttc 360  
 tcaagtcac acatctgtga actcacagac caagttctta aacctctgtt caaactctgc 420  
 tacacatcag aatcacctgg agagctttac aaactccat tggcaggggt cgacgcgggc 480  
 gcgattttag tag 493

<210> 451  
 <211> 501  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

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 aacgccaggg tttcccatg cncgacgttg taaaacyacg gacagtgaat tgaatttagg 180  
 tgacnctata gaagagctat gacgtcgcat gcacgcgtac gtaagcttgg atcctctaga 240  
 ggggcgcgct actactata aattcgcgcc cgcgtcgacg tgggatccnc actgagagag 300  
 tggagagtga catgtgctgg acnctgtcca tgaagcactg agcagaagct gggggcaca 360  
 cgcncacagc actcacagct actcagggag ctgagaacag gttgaacctg ggaggtggag 420

gttgcaatga gctgagatca ggcncctgcn ccccagcatg gatgacagag tgaactcca 480  
tcttaaaaaa aaaaaaaaaa a 501

<210> 452  
<211> 51  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(51)  
<223> n = A,T,C or G

<400> 452  
agacgggttcc acctttacaa cnccttttag gatgggnntt ggggagcaag c 51

<210> 453  
<211> 317  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(317)  
<223> n = A,T,C or G

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ttcaccacaa cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca 180  
taacaaaccc tgcctcaatc tgtcacataa aagtcctgta cttgaagttt antcagcacc 240  
cccacaaaac tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300  
taacctatgc tttatta 317

<210> 454  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 454  
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agaagaccaa attcttctgc atccagctt gcaaacaaaa ttgttctctt aggtctccac 180  
ccttcttttt tcagtgttcc aaagctcttc acaatttcat gaacaacagc t 231

<210> 455  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 455  
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gtttcaacgc attgatgact tctccaagga tcttctcttg gaatcgacca ctttcagggg 180  
caaagaattt ctcatagcac agctcacaaat acaggggtcc tttctctct a 231

<210> 456  
<211> 231

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 456

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ttggcaggtg cccttacaaa gaagacacca taccttatgc gttattaggt ggaataatca 60
ttccattcag tattatogtt attattcttg gagaaacct gtctgtttac tgtaaccttt 120
tgcactcaaa ttccctttatc aggaataact acatagccac tatttacaaa gccattggaa 180
cctttttatt tgggtgcagct gctagtcagt cctgactga cattgccaaag t 231

```

&lt;210&gt; 457

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(231)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 457

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cgaggtaacc aggggtctga aactctctnn ttantagtc gatagcaaaa ttgttcatca 60
gcattcetta atatgatctt gctataatta gatitttctc cattagagtt catacagttt 120
tatttgattt tattagcaat ctctttcaga agaccttga gatcattaag ctttgtatcc 180
agttgtctaa atcgatgctt ctttctctct gaggtgtctg tggcttttgt g 231

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&lt;210&gt; 458

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 458

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aggtctggtt ccccccaatt ccactccctt ctactctctc taggactggg ctggggccaag 60
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acacctaac cttgggtaac agcatttgga attatcattt gggatgagta gaatttccaa 180
ggctctgggt taggcatttt ggggggocag accccaggag aagaagattc t 231

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&lt;210&gt; 459

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 459

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ggtaccgagg ctccgtgaca cagagaaaac ccaacgcgag gaaaggaaatg gccagccaca 60
ccttcgcyaa acctgtggtg gccaccagat octaacggga caggacagag agacagagca 120
gccctgcaet gtttccctc caaccacagcc atcctgtccc tcattggctc tgtgctttcc 180
actatacaca gtcacagtc ccatgagaaa caagaaggag caccctccac a 231

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&lt;210&gt; 460

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 460

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gcaggtataa catgctgcaa caacagatgt gactaggaac ggccggtgac atggggaggg 60
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cccacctccc cacacgcaca cggccagcct ggaagccaca gaagggtcct cctgcagcca 180
gtggagcttg gtcacagctc cagtcacccc ctaccagggt taaggataga a 231

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<210> 461  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 461  
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 gtgggggttca gtgaggagtg ggaaattggt tcagcagaac caagccgttg ggtgaataag 180  
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<210> 462  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 462  
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 gaagaactgt tagagagacc aacagggtag tgggttagag atttccagag tcttacattt 180  
 tctagaggag gtatttaatt tcttctcact catccagtgt tgtatttagg a 231

<210> 463  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 463  
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 catttagacag gtgtcttttc ctctggacct cgggtgtccc atctgagtga gaaaaggcag 180  
 tggggaggtg gatcttccag tcgaagcggc atagaagccc gtgtgaaaag c 231

<210> 464  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 464  
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 cctgcttcag tgaactgtgt cctgtagtcc cagctactcg ggagtctgtg tgaggccagg 180  
 ggtgccagcg caccagctag atgctctgta acttctagga cccattttcc c 231

<210> 465  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 465  
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 aggatggcac aatttttgc tgtgttcata atatactcag attagttcag ctccatcaga 180  
 taaactggag acatgcagga cattagggta gtgttctaga tctggtaatg a 231

<210> 466  
 <211> 231  
 <212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 466

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ggccttcgaa cagaacttgc cacataccca ggtataatag tttctaacat ttgccagga 120
cctgtgcaat caaatattgt ggagaattcc ctagtggag aagtcacaaa gactataggg 180
aataatggag accagtccca caagatgaca accagtcttt gtgtgoggt g 231

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&lt;210&gt; 467

&lt;211&gt; 311

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 467

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gtacacccctg gcacagtcca atctgaactg gtccggcaact catctttcat gagatggatg 60
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ctgcagcaga c 311

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&lt;210&gt; 468

&lt;211&gt; 3112

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 468

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&lt;210&gt; 469

&lt;211&gt; 2229

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 469

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2229

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&lt;210&gt; 470

&lt;211&gt; 2426

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 470

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2426

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&lt;210&gt; 471



&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 471

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gaaagcacag tttaggcagc agggccagaa tctgaccct ctgcccgtg gttatctctt 240
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812

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&lt;210&gt; 472

&lt;211&gt; 515

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(515)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 472

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515

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&lt;210&gt; 473

&lt;211&gt; 5829

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 473

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&lt;210&gt; 474

&lt;211&gt; 1594

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 474

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&lt;210&gt; 475

&lt;211&gt; 2414

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (33)

&lt;223&gt; A,T,C or G

&lt;400&gt; 475

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<210> 476  
 <211> 3434  
 <212> DNA  
 <213> Homo sapiens

<400> 476

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165

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&lt;210&gt; 477

&lt;211&gt; 140

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 477

```

Met Asp Gly His Thr Asp Ile Trp Arg Asn His Met Asp Thr Pro Pro
          5                               10                           15

His Tyr His Arg Asp Thr Asp Thr Arg Arg His His His Met Asp Thr
          20                               25                           30

Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
          35                               40                           45

His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
          50                               55                           60

His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
          65                               70                           75                           80

Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His
          85                               90                           95

Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr
          100                              105                           110

Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
          115                              120                           125

Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Gln
          130                              135                           140

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&lt;210&gt; 478

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 478

```

Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
          5                               10                           15

Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
          20                               25                           30

Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr
          35                               40                           45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr

```

166

50	55	60
Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr		
65	70	75
Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser		
85	90	95
His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp		
100	105	110
Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser		
115	120	125
His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val		
130	135	140

&lt;210&gt; 479

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 479

Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln		
5	10	15
Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr		
20	25	30
Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr		
35	40	45
His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr		
50	55	60
Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr		
65	70	75
Pro Thr His Cys His Met Asp Thr Ala Thr His Thr Ala Thr Leu Ser		
85	90	95
His Gly His Thr Ser Ile Pro Ser His His His Thr His Cys His Val		
100	105	110
Asp Thr Arg Thr His Arg His Cys His Thr Asp Thr Gln Asn Thr Val		
115	120	125
Thr Arg Arg His His His Ala Asp Thr Pro Pro His Gly His Ser Thr		
130	135	140
Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His		
145	150	155
Cys His Thr Asp Thr Thr Thr Ser Leu Pro His Phe His Val Ser Ala		
165	170	175
Gly Gly Val Gly Pro Thr Thr Leu Gly Ser Asn Arg Glu Ile Thr Trp		

167

180	185	190
Thr Tyr Ser Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala		
195	200	205
Arg Leu Cys Leu Lys Lys Arg Lys Lys Lys Gln Tyr Thr Val		
210	215	220

<210> 480  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens

<400> 480
Met Glu Pro Tyr Arg Gly Asn Glu Gln Pro Ser Gln Glu Gln Gly Val
5 10 15
Cys Cys Leu Trp Gly Leu Gln Ser Leu Pro Gln Gly Ser Tyr Val Thr
20 25 30
Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg
35 40 45
Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly
50 55 60
Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln
65 70 75 80
Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys
85 90 95
Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly
100 105 110
Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu
115 120 125
Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly
130 135 140

<210> 481  
 <211> 167  
 <212> PRT  
 <213> Homo sapiens

<400> 481
Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro
5 10 15
Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
20 25 30



Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser  
 35 40 45  
 Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys  
 50 55 60  
 Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro  
 65 70 75 80  
 Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg  
 85 90 95  
 Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala  
 100 105 110  
 Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His  
 115 120 125  
 Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr Ala Ala Phe  
 130 135 140  
 Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu Trp Ala Ser  
 145 150 155 160  
 Trp Leu Ser Arg Gly Arg Pro  
 165

&lt;210&gt; 482

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 482

Met Gln Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val  
 5 10 15  
 Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu  
 20 25 30  
 Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg  
 35 40 45  
 Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly  
 50 55 60  
 Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe  
 65 70 75 80  
 Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr  
 85 90 95  
 Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly  
 100 105 110  
 Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys  
 115 120 125

Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly  
 130 135 140

<210> 483  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens

<400> 483  
 Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val  
 5 10 15  
 Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala  
 20 25 30  
 Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp  
 35 40 45  
 Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu  
 50 55 60  
 Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp  
 65 70 75 80  
 Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg  
 85 90 95  
 Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val  
 100 105 110  
 Arg Leu Val Gln Ala Glu His Pro Pro Pro His Pro Leu Glu Glu Val  
 115 120 125  
 Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys  
 130 135 140

<210> 484  
 <211> 30  
 <212> PRT  
 <213> Homo Sapien

<400> 484  
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe  
 1 5 10 15  
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile  
 20 25 30

<210> 485  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 485  
 gggaagctta tcaacctatgt gccgcctctg c

<210> 486  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 486  
 gcgaattctc acgctgagta ttggcc 27

<210> 487  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 487  
 ccgaattct taqctgcca tcgacggcc ttcatc 36

<210> 488  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 488  
 gggaagcttc ttccccggt gcaccagctg tgc 33

<210> 489  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 489  
 Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala  
 1 5 10 15  
 Ser Val Ala

<210> 490  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 490  
 Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys

171

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1          5          10          15
Leu Ser His Ser
20

<210> 491
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 491
Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
1          5          10          15
Thr Gly Phe Thr
20

<210> 492
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 492
Ala Leu Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr
1          5          10          15
Leu Ala Ser Leu
20

<210> 493
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 493
Tyr Thr Leu Ala Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro
1          5          10          15
Lys Tyr Arg Gly
20

<210> 494
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 494
Leu Pro Lys Tyr Arg Gly Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser
1          5          10          15
Leu Met Ile Ser

```

20

<210> 495  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 495  
 Asp Ser Leu Met Thr Ser Phe Leu Pro Gly Pro Lys Pro Gly Ala Pro  
 1 5 10 15  
 Phe Pro Asn Gly  
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<210> 496  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 496  
 Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu  
 1 5 10 15  
 Pro Pro Pro Pro Ala  
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<210> 497  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 497  
 Leu Leu Pro Pro Pro Ala Leu Cys Gly Ala Ser Ala Cys Asp Val  
 1 5 10 15  
 Ser Val Arg Val  
 20

<210> 498  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 498  
 Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala Arg Val  
 1 5 10 15  
 Val Pro Gly Arg  
 20

<210> 499  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 499  
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp  
 1 5 10 15  
 Ser Ala Phe Leu  
 20

<210> 500  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 500  
 Leu Asp Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met  
 1 5 10 15  
 Gly Ser Ile Val  
 20

<210> 501  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 501  
 Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met  
 1 5 10 15  
 Val Ser Ala Ala  
 20

<210> 502  
 <211> 414  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(414)  
 <223> n=A,T,C or G

<400> 502  
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 ctgtagagtt tttggaatng acctcagtag caatgcaatg agctgggtcc gccaggtcc 180  
 agggaggggg ctggaatgga toggagccat tgataattgt ccacantacg cgacctgggc 240

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gaaaggccga ttatnatttt ccaaaacctn gaaccaoggtg gatttgaaaa tgaccagttc 300
gacaaccgag gacacggcca cctatttttg tggcagaatg aatactggtg atagtgggtg 360
gaagaatatt tggggccag gcacctggt caccgtntcc tcagggcaac ctaa 414

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<210> 503  
 <211> 379  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(379)  
 <223> n=A,T,C or G

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<400> 503
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agctatggag tgagctgggt ccgccagget ccaggggaagg ggctgggata catcggatca 180
ttagtagtag tggtagattt tacgcgagct gggcgaaaagg cagattcacc atttccaaaa 240
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tntgtgccag aggggggttt aattataaag acatttgggg cccaggcacc ctggtcacgc 360
tntccttagg gcaacctaa 379

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<210> 504  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

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<400> 504
Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu
  1           5           10           15
Asn Ser Ala

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<210> 505  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

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<400> 505
Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr
  1           5           10           15
Asn Thr Ala Asn
  20

```

<210> 506  
 <211> 407  
 <212> DNA  
 <213> Homo Sapien

<400> 506





&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 510

Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile
1				5					10					15

&lt;210&gt; 511

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 511

Tyr	His	Pro	Ser	Met	Phe	Cys	Ala	Gly	Gly	Gly	Gln	Asp	Gln	Lys
1				5				10						15

&lt;210&gt; 512

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 512

Asp	Ser	Gly	Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu
1				5				10						15

&lt;210&gt; 513

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 513

Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Asx	Val	Tyr	Thr	Asn	Leu
1				5				10						15

&lt;210&gt; 514

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 514

Leu	Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser
1				5				10						15

&lt;210&gt; 515

<211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 515  
 Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg  
 1 5 10 15

<210> 516  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 516  
 Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln  
 1 5 10 15

<210> 517  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 517  
 Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met  
 1 5 10 15

<210> 518  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 518  
 Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly  
 1 5 10 15

<210> 519  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 519  
 Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg Asn Tyr Asp Glu Gly Cys  
 1 5 10 15

Gly

<210> 520  
 <211> 25  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 520  
 Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr  
 1 5 10 15  
 Glu Ala Arg Arg His Tyr Asp Glu Gly  
 20 25

<210> 521  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 521  
 Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu  
 1 5 10 15  
 Pro Pro Pro Pro Ala  
 20

<210> 522  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 522  
 Leu Leu Val Val Pro Ala Ile Lys Lys Asp Tyr Gly Ser Gln Glu Asp  
 1 5 10 15  
 Phe Thr Gln Val  
 20

<210> 523  
 <211> 254  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<220>  
 <221> VARIANT  
 <222> (1)...(254)  
 <223> Xaa = any amino acid

<400> 523  
Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile  
1 5 10 15  
Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile  
20 25 30  
Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu  
35 40 45  
Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln  
50 55 60  
Trp Val Leu Ser Ala Thr His Cys Phe Gln Asn Ser Tyr Thr Ile Gly  
65 70 75 80  
Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met  
85 90 95  
Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu  
100 105 110  
Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu  
115 120 125  
Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala  
130 135 140  
Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg  
145 150 155 160  
Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu  
165 170 175  
Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys  
180 185 190  
Ala Gly Gly Gly Gln Asn Gln Asn Asp Ser Cys Asn Gly Asp Ser Gly  
195 200 205  
Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly  
210 215 220  
Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu  
225 230 235 240  
Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
245 250

<210> 524  
<211> 765  
<212> DNA  
<213> Homo sapien

<400> 524  
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tcgcagccct ggcaggcggc actggtcatg gaaaacgaat tgtctgctc gggcgctactg 180  
gtgcctcggc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 240  
ctgggacctg acagtcttga ggcagaccaa gagccaggga gccagatggt ggaggccagc 300  
ctctccgtac ggcaccaga gtacaacaga cccttgcctg ctacagacct catgctcctc 360  
aagttggaag aatccgtgtc caggtctgac accatccgga gcctcagcat tgcttcgcag 420  
tgccctaacg cggggaactc ttgctcgtt tctggctggg gtctgctggc gaacggcaga 480  
atgootaacg tgcctcagtg cgtgaaagt tccgtggtgt ctgaggaggt ctgcagtaag 540  
ctctatgaac cgtgtgacaa cccagcatg ttctggcgcg gggagggca agaccagaag 600  
gactcctgca acggtgactc tggggggccc ctgatctgca aagggtactt gcagggcott 660  
gtgtctttcg gaaaagcccc gtgtggccaa gttggcgctg caggtgtcta caccaacctc 720  
tgcaaatcca ctgagtgat agagaaaacc gtccaggcca gttac 765

<210> 525  
<211> 254  
<212> PRT  
<213> Homo sapien

&lt;400&gt; 525

```

Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
 1          5          10          15
Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
 20          25          30
Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
 35          40          45
Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
 50          55          60
Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
 65          70          75          80
Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
 85          90          95
Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
100          105          110
Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
115          120          125
Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
130          135          140
Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
145          150          155          160
Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
165          170          175
Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
180          185          190
Ala Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly
195          200          205
Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
210          215          220
Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
225          230          235          240
Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
245          250

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&lt;210&gt; 526

&lt;211&gt; 963

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 526

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aaagcccatt tctgggttgg ctcccccctc ctttccatgt atgtagtggc aatgttttgg 120
aactgcacog tgggtcttcat cgttaaggacg gaacgcagcc tgcacgctcc gatgtacctc 180
tttctctgca tgettgcagc cattgacctg gctttatcca catccaccat gcttaagatc 240
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gcccagattg gcactctggc tgtgtctcgc ggatccctct tttttttccc actgacctctg 480
ctgatcaagg ggcctggcct ctgccactcc aatgtctctt cgcactccta ttgtgtccac 540
caggatgtaa tgaagttggc ctatgcagac actttgcccc atgtgttata tggctcttact 600
gccattctgc tggctcatgg cgtggacgta atgttcatct ccttgccta tttctgtata 660
atacgaacgg ttctgcaact gctttccaa gtcagagcgg ccaaggcctt tggaaacctgt 720
gtgtcacaca ttggtgtggg actcgccttc tatgtgccac ttatttggct ctcatgttga 780
cacogctttg gaaacagcct tcatccatt gtgcgtgttg tcatgggtga catctacctg 840
ctgtctgctc ctgtcatcaa tcccatcatc tatgtgtcca aaaccaaca gatcagaaca 900
cgggtgctgg ctatgttcaa gatcagctgt gcaaggact tgcaggctgt gggaggcaag 960
tga

```

210 227

211 329

0023 0024

913 Homo sapiens

<400> 527

Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile  
                  <sub>3</sub>  <sub>10</sub>  <sub>15</sub>

Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser  
20 25 30

Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val  
35 40 45

Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met  
50 55 60

Leu Ala Ala His Asp Leu Ala Leu Ser Thr Ser Thr Met Phe Lys Ile  
68 70 75 80

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys  
85 90 95

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr  
100 105 110

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro  
118 120 125

Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly  
130 135 140

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Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Thr Pro Leu Pro Leu
148                               150                       155               160

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Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser  
165 170 175

Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu  
180 185 190

Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val  
195 200 205

Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val  
210 215 220

Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys  
235 236 235 240

Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly  
245 250 255

Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Phe His Val Arg  
260 265 270

Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro  
275 280 285

Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala  
290 295 300

Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys  
305 310 315 320

<210> 528  
<211> 20  
<212> DNA  
<213> Homo Sapien

<400> 528  
actatgggtcc agaggtctgtg

20

<210> 529  
<211> 20  
<212> DNA  
<213> Homo Sapien

<400> 529  
atcacctatg tgccgctct

20

<210> 530  
<211> 1852  
<212> DNA  
<213> Homo sapiens

<400> 530

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aaaacccaccc atgacaagcc cacagccaac ataatactaa atggggaaaaa gttagaagca 120  
tttctctctga gaactgcaac aatasaatata aggatgctgg attttctgtaa atgacctttt 180  
tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240  
ttattgactt gectgtgtta gaccgggaaga gctgggggtgt ttctcaggag ccaccgtgtg 300  
ctggggcagc ttccgggataa cttgaggtcg catcactggg gaagaaacac aytccgtgtc 360  
gtggcgctga tggctgagga cagagcttca gtgtggcttc tctgcgactg gcttcttcgg 420  
ggagttcttc cttcatagtt catccatatt gctccagagg aaaattatat tattttgtta 480  
tggatgaaga gtattacgtt gtgcagatat actgcagtgt cttcatctct tgatgtgtga 540  
ttgggtagggt tccaccatgt tgccgcagat gacatgattt cagtacctgt gtctggctga 600  
aaagtgtttg tttgtgaatg gatattgttg tttctggatc tcatctcttg tgggtggaca 660  
gctttctcca ccttgctgga agtgacctgc tgtccagaag tttgatggct gaggagtata 720  
ccatogtgca tgcactcttc atttctgca tttcttctc cctggatgga cagggggagc 780  
ggcaagagca acgtgggcac ttctggagac cacaacgact cctctgtgaa gacgcttggg 840  
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aacgtggtcg cttggggaga ctacgatgac agcgcttca tggatcccag gtaccacgtc 960  
catggagaag atctggacaa gctccacaga gctgcoctgt ggggtaaagt cccagaaag 1020  
gatctcatcg tcatgctcag ggacaaggat gtgaacaaga gggacaagca aaagaggact 1080  
gctctacatc tggcctctgc caatgggaat tcagaagtag taaaactcgt gctggacaga 1140  
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tgccagggaag atgaatgtgt gttaatgttg ctggaacatg gcaactgatc aaatattcca 1260  
gatgagtatg gaaataccac tctacactat gctgtctaca atgaagataa attaatggcc 1320  
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ggatcagcaa gtatagtcag cctctactt gagcaaaatg ttgatgtatc ttctcaagat 1560  
ctggaagagc ggccagagag tatgtctgtt ctatgcatca tcatgtaatt tgccagttac 1620

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tttctgacta csaagaaaaa cagatgttaa aaatctotte tgsaaacagc aatccagaac 1680
aagaattaaa gctgacatca gaggaagagt cacaaaggct taaggaagt gaaaacagcc 1740
agccagagct agaagattta tggctattga agaagaatga agaacacgga agtactcatg 1800
tgggattccc agaaaacctg actaacgggt cgcgtgctgg caatggtgat ga 1852

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&lt;210&gt; 531

&lt;211&gt; 879

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 531

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atgcacchtt catthtoctge atttcttctt ccttggatgg acagggggag cggcaagagc 60
aacgtgggca cttctggaga ccacaaagac tctctgtga agaogcttgg gagcaagagg 120
tgcaagtggg gctgcaactg cttccctctg tgcaggggga gggcaagag caactgggtc 180
gcttggggag actacgatga cagcgcttcc atggatccca ggtaccacgt ccatggagaa 240
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cttaantgtc ttgaacaaca aaagaggaca gctctgacaa aggcogtaca atgccaggaa 480
gatgaatgtg cgttaatgtt gctggaacat ggcactgac ccaatatccc agatgagtat 540
ggaaatacca ctctacacta tgetgtctac aatgaagata aattaatggc caaagcactg 600
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ggtatacatg agcaaaaaca gcaagtgggt aaatttttaa tcaagaaaaa agogaattta 720
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cggccagaga gtatgctgtt tctagtcatc atcatgtaa 879

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&lt;210&gt; 532

&lt;211&gt; 292

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 532

```

Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
          5                      10                      15

Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
          20                      25                      30

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
          35                      40                      45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
          50                      55                      60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
          65                      70                      75                      80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
          85                      90                      95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
          100                     105                     110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
          115                     120                     125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu

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130	135	140
Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu		
145	150	155 160
Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile		
	165	170 175
Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu		
	180	185 190
Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu		
	195	200 205
Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu		
	210	215 220
Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu		
	225	230 235 240
Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys		
	245	250 255
Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp		
	260	265 270
Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu		
	275	280 285
Val Ile Ile Met		
290		

&lt;210&gt; 533

&lt;211&gt; 801

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 533

```

atgtacaagc ttcagtgcac caactgtgct acaaatggag ccacagagag gaaacaagca 60
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tatgccactg cagcattctt ggttgccaag aggccaaacca caggccatct tgagaaggag 180
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tctgcagggg tgcgtcttga ggaggtggac cagccaccaa ccttaccacg tcaagggaag 420
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cctgcagcga gtgaggttgg ttgctgtgcc ccagctctt ggcacacctt cgcagaggtg 600
actggttget ctttgagunc tottagcctt gccagcatg cacaagcttc agtgcata 660
ctgtgctaca aatggagcca tataggggaa acgagcagcc atctcaggag caaggtgtat 720
gtgccccttg ggggtccacg tcttgcttc aagggttcta tgtcactgtg ggcttcttgg 780
ttgccaagag gcagaccata g
801

```

&lt;210&gt; 534

&lt;211&gt; 266

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

185

&lt;400&gt; 534

```

Met Tyr Lys Leu Gln Cys Asn Asn Cys Ala Thr Asn Gly Ala Thr Glu
      5                      10                      15

Arg Lys Gln Ala Ala Gly Ser Gly Ala Gly Tyr Ala Leu Pro Ser Ala
      20                      25                      30

Leu Gln Ser Met Pro Gln Gly Ser Tyr Ala Thr Ala Arg Phe Leu Val
      35                      40                      45

Ala Lys Arg Pro Thr Thr Gly His Leu Glu Lys Glu Phe Met Phe His
      50                      55                      60

Cys Arg Lys Gln Pro Gly Ser Pro Ser Arg Gly Leu Gly Leu Leu Trp
      65                      70                      75                      80

Pro Trp Pro Asp Ile Glu Phe Val Pro Arg Gln Asp Lys Leu Thr Gln
      85                      90                      95

Ser Ser Val Leu Val Pro Gln Ile Cys Ala Cys Gln Thr Arg Pro Asn
      100                      105                      110

Trp Leu Asn Glu Gln Pro Ala Thr Ser Ala Gly Val Arg Leu Glu Glu
      115                      120                      125

Val Asp Gln Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys
      130                      135                      140

Ser His Ser Leu Ser Gly Cys His Leu Met Ala Asp Ile Ala Lys Ala
      145                      150                      155                      160

Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr
      165                      170                      175

Asp Val Pro Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser
      180                      185                      190

Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu
      195                      200                      205

Ser Leu Ala Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys
      210                      215                      220

Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr
      225                      230                      235                      240

Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu
      245                      250                      255

Trp Ala Ser Trp Leu Pro Arg Gly Arg Pro
      260                      265

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&lt;210&gt; 535

&lt;211&gt; 6082

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 535

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cggagcccg	ggccactgcc	gcctgatcag	cgcgaccccg	gccccggccc	gccccgccc	180
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ttaccaatit	gagaaagaag	gagatttcca	agattctgag	aagttccctgc	ctcaggggga	1140
tgaatttggc	ttcgttttct	agtgcagcca	aaatcatogt	gtttgtgacc	ttcaccaact	1200
acgtgctcct	cggcagtggt	atcacagcca	gcgcgctgtt	cgtggcagtg	acgctgtatg	1260
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&lt;211&gt; 6140

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&lt;213&gt; Homo sapiens

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&lt;211&gt; 1228

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&lt;213&gt; Homo sapiens

&lt;400&gt; 537

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Gly	Asn	Val	Thr	Glu	Lys	Leu	Asp	Leu	Asn	Trp	Tyr	Leu	Gly	Ile	Tyr		
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Asp	Asp	Leu	Leu	Pro	Leu	Thr	Phe	Leu	Asp	Phe	Ile	Gln	Thr	Leu	Leu		
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Gln	Val	Val	Gly	Val	Val	Ser	Val	Ala	Val	Ala	Val	Ile	Pro	Trp	Ile		
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Ala	Ile	Pro	Leu	Val	Pro	Leu	Gly	Ile	Ile	Phe	Ile	Phe	Leu	Arg	Arg		
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Arg	Ser	Pro	Val	Phe	Ser	His	Leu	Ser	Ser	Ser	Leu	Gln	Gly	Leu	Trp		
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Thr	Ile	Arg	Ala	Tyr	Lys	Ala	Glu	Glu	Arg	Cys	Gln	Glu	Leu	Phe	Asp		
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Ala	His	Gln	Asp	Leu	His	Ser	Glu	Ala	Trp	Phe	Leu	Phe	Leu	Thr	Thr		
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Ser	Arg	Trp	Phe	Ala	Val	Arg	Leu	Asp	Ala	Ile	Cys	Ala	Met	Phe	Val		
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 Gly Gln Val Gly Leu Ala Leu Ser Tyr Ala Leu Thr Leu Met Gly Met  
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 Phe Gln Trp Cys Val Arg Gln Ser Ala Glu Val Glu Asn Met Met Ile  
 995 1000 1005  
 Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu Glu Lys Glu Ala Pro  
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 1025 1030 1035 1040  
 Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser Pro Gly Gly Pro Leu  
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 Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp Ile Asp Lys Ile Leu  
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 Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys Lys Met Ser Ile Ile  
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 Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met Arg Lys Asn Leu Asp  
 1125 1130 1135  
 Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp Asn Ala Leu Gln Glu  
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 Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro Gly Lys Met Asp Thr  
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 Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val Gly Gln Arg Gln Leu  
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 Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile  
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194

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Gln	Lys	Pro	Ser	Leu	Thr	Arg	Ala	Ile	Ile	Lys	Cys	Tyr	Trp	Lys	Ser		
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Tyr	Leu	Val	Leu	Gly	Ile	Phe	Thr	Leu	Ile	Glu	Glu	Ser	Ala	Lys	Val		
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Ile	Gln	Pro	Ile	Phe	Leu	Gly	Lys	Ile	Ile	Asn	Tyr	Phe	Glu	Asn	Tyr		
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Asp	Pro	Met	Asp	Ser	Val	Ala	Leu	Asn	Thr	Ala	Tyr	Ala	Tyr	Ala	Thr		
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Val	Leu	Thr	Phe	Cys	Thr	Leu	Ile	Leu	Ala	Ile	Leu	His	His	Leu	Tyr		
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Phe	Tyr	His	Val	Gln	Cys	Ala	Gly	Met	Arg	Leu	Arg	Val	Ala	Met	Cys		
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His	Met	Ile	Tyr	Arg	Lys	Ala	Leu	Arg	Leu	Ser	Asn	Met	Ala	Met	Gly		
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Lys	Phe	Asp	Gln	Val	Thr	Val	Phe	Leu	His	Phe	Leu	Trp	Ala	Gly	Pro		
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Leu	Gln	Ala	Ile	Ala	Val	Thr	Ala	Leu	Leu	Trp	Met	Glu	Ile	Gly	Ile		
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Ser	Cys	Leu	Ala	Gly	Met	Ala	Val	Leu	Ile	Ile	Leu	Leu	Pro	Leu	Gln		
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Ala	Ser	Arg	Val	Phe	Val	Ala	Val	Thr	Leu	Tyr	Gly	Ala	Val	Arg	Leu		
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 325 330 335  
 Ile Val Ser Ile Arg Arg Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile  
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 Ser Gln Arg Asn Arg Gln Leu Pro Ser Asp Gly Lys Lys Met Val His  
 355 360 365  
 Val Gln Asp Phe Thr Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr  
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 Val Gly Pro Val Gly Ala Gly Lys Ser Ser Leu Leu Ser Ala Val Leu  
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 Gly Glu Leu Ala Pro Ser His Gly Leu Val Ser Val His Gly Arg Ile  
 420 425 430  
 Ala Tyr Val Ser Gln Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser  
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 Asn Ile Leu Phe Gly Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val  
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 Ile Lys Ala Cys Ala Leu Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly  
 465 470 475 480  
 Asp Leu Thr Val Ile Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln  
 485 490 495  
 Lys Ala Arg Val Asn Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile  
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 Tyr Leu Leu Asp Asp Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg  
 515 520 525  
 His Leu Phe Glu Leu Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr  
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 Leu Ile Leu Lys Asp Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu  
 565 570 575  
 Phe Leu Lys Ser Gly Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn  
 580 585 590  
 Glu Gln Ser Gln Gln Pro Pro Val Pro Gly Thr Pro Thr Leu Arg Asn  
 595 600 605  
 Arg Thr Phe Ser Glu Ser Ser Val Trp Ser Gln Gln Ser Ser Arg Pro  
 610 615 620

Ser Leu Lys Asp Gly Ala Leu Glu Ser Gln Asp Thr Glu Asn Val Pro  
 625 630 635 640  
 Val Thr Leu Ser Glu Glu Asn Arg Ser Glu Gly Lys Val Gly Phe Gln  
 645 650 655  
 Ala Tyr Lys Asn Tyr Phe Arg Ala Gly Ala His Trp Ile Val Phe Ile  
 660 665 670  
 Phe Leu Ile Leu Leu Asn Thr Ala Ala Gln Val Ala Tyr Val Leu Gln  
 675 680 685  
 Asp Trp Trp Leu Ser Tyr Trp Ala Asn Lys Gln Ser Met Leu Asn Val  
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 Thr Val Asn Gly Gly Gly Asn Val Thr Glu Lys Leu Asp Leu Asn Trp  
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 Tyr Leu Gly Ile Tyr Ser Gly Leu Thr Val Ala Thr Val Leu Phe Gly  
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 Ile Ala Arg Ser Leu Leu Val Phe Tyr Val Leu Val Asn Ser Ser Gln  
 740 745 750  
 Thr Leu His Asn Lys Met Phe Glu Ser Ile Leu Lys Ala Pro Val Leu  
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 770 775 780  
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 Val Ile Pro Trp Ile Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe  
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 850 855 860  
 Leu Gln Gly Leu Trp Thr Ile Arg Ala Tyr Lys Ala Glu Glu Arg Cys  
 865 870 875 880  
 Gln Glu Leu Phe Asp Ala His Gln Asp Leu His Ser Glu Ala Trp Phe  
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 Leu Phe Leu Thr Thr Ser Arg Trp Phe Ala Val Arg Leu Asp Ala Ile  
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Glu Lys Glu Ala Pro Trp Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp		
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Pro His Glu Gly Val Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser		
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Pro Gly Gly Pro Leu Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser		
	1010	1015 1020
Gln Glu Lys Val Gly Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser		
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Leu Ile Ser Ala Leu Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp		
	1045	1050 1055
Ile Asp Lys Ile Leu Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys		
	1060	1065 1070
Lys Met Ser Ile Ile Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met		
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	1090	1095 1100
Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro		
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Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val		
	1125	1130 1135
Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn		
	1140	1145 1150
Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr		
	1155	1160 1165
Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr		
	1170	1175 1180
Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys		
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Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr		
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Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln		
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<210> 542  
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 Thr Gln Val Val Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala  
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15	16	17	18	19	20	21
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29	30	31				

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See Val

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Cys Arg Met Pro Arg Thr Leu Arg Arg Leu  
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Glu Cys

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Gln Ala

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<212> PRT  
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tcataccagt ccacggacta ttatgsaoca caccacacag gagggaggta gcactaggca 180  
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